

## Claims:

1. A process for preparing an elastic fiber, comprising the steps of:  
adding 1~20% by weight of a cellulose acetate to a polyurethane or  
5 polyurethaneurea solution, based on the total weight of the polyurethane or  
polyurethaneurea, and homogeneously stirring the mixture to obtain a spinning  
solution;  
ripening the spinning solution; and  
10 spinning the ripened solution.
2. The process according to claim 1, wherein the cellulose acetate is cellulose  
diacetate or cellulose triacetate having a degree of acetylation of 28%~72%.
3. The process according to claim 1 or 2, wherein the polyurethane or  
15 polyurethaneurea solution is obtained by reacting an organic diisocyanate with a  
polymeric diol to form a polyurethane precursor, dissolving the polyurethane precursor  
in an organic solvent, and reacting the precursor solution with a diamine and a  
monoamine sequentially.
- 20 4. The process according to claim 3, wherein the organic diisocyanate is  
selected from the group consisting of diphenylmethane-4,4'-diisocyanate,  
hexamethylenediisocyanate, toluenediisocyanate, buthylene diisocyanate, and  
hydrogenated p,p-methylenediisocyanate; the polymeric diol is selected from the group  
consisting of polytetramethyleneether glycol, polypropyleneglycol, and  
25 polycarbonatediol; the diamine is selected from the group consisting of  
ethylenediamine, propylenediamine, and hydrazine; and the monoamine is selected  
from the group consisting of diethylamine, monoethanolamine, and dimethylamine;  
and the organic solvent is selected from the group consisting of N,N'-  
dimethylformamide, N,N'-dimethylacetamide, and dimethylsulfoxide.
- 30 5. The process according to claim 1 or 2, wherein the spinning solution further  
contains at least one additive selected from dulling agents, UV stabilizers,  
antioxidants, NO<sub>x</sub> gas anti-yellowing agents, anti-adhesion agents, dyeing promoters,

and anti-chlorine agents.

5        6. The process according to claim 1 or 2, wherein after the addition of the cellulose acetate, the homogeneous stirring is carried out for at least 2 hours, and the spinning solution is ripened by allowing it to stand at 30°C~70°C for 28~38 hours,

7. An elastic fiber prepared by the process according to claim 1 or 2.

8. A velvet fabric manufactured using the elastic fiber according to claim 7.